We Claim:

1. An arrangement for charging a power module, comprising:

a power module including one or more ultracapacitors;

an energy source connected to said power module, a positive terminal of said energy source connected to a positive terminal of said power module, and a negative terminal of said energy source connected to a negative terminal of said power module; and

a control circuit adapted to provide a higher current level to said power module than output by said energy source for at least a portion of a charging period.

- 2. The arrangement according to Claim 1, wherein said control circuit is adapted to maintain a constant power level at the power module as the voltage level across the power module increases.
- 3. The arrangement according to Claim 1, wherein said control circuit includes pulsewidth modulator and an inductor connected in series with said power module.
- 4. The arrangement according to Claim 3, wherein said pulse-width modulator controls a charge level of said inductor.
- 5. The arrangement according to Claim 4, wherein said charge level corresponds to a current level which is in accordance with a desired power level at said power module and an instantaneous voltage level across said power module.
- 6. The arrangement according to Claim 3, wherein said inductor is adapted to limit a current level through said power module to a predetermined peak level.
- 7. The arrangement according to Claim 1, wherein said control circuit is adapted to provide a current level through said power module greater than a current level from said energy source during at least a portion of a charging period.

8. A constant-power charging circuit for an ultracapacitor power module, comprising: a pulse-width modulator; and

an inductor connected in series with said pulse-width modulator and said power module;

wherein said pulse-width modulator is adapted to control the charge level of said inductor.

- 9. The circuit according to Claim 8, wherein said charge level corresponds to a current level which is in accordance with a desired power level at said power module and an instantaneous voltage level across said power module.
- 10. The arrangement according to Claim 8, wherein said inductor is adapted to limit a current level through said power module to a predetermined peak level.
- 11. The arrangement according to Claim 8, wherein said control circuit is adapted to provide a current level through said power module greater than a current level from said energy source during at least a portion of a charging period.
- 12. A method of charging an ultracapacitor power module, comprising:

charging an inductor connected in series between an energy source and said power module; and

controlling a charge level of said inductor to achieve a desired current level through said power module.

- 13. The method according to Claim 12, wherein said controlling includes modulating the current from said energy source to said inductor through a pulse-width modulator.
- 14. The method according to Claim 12, wherein said desired current level corresponds to a desired power level at said power module.

- 15. The method according to Claim 14, wherein said power level is constant during charging of said power module.
- 16. The method according to Claim 12, wherein said desired current level through said power module is greater than a current level from said energy source during at least a portion of a charging period.